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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

Claims 53-71 (Cancelled)

72. (previously presented) A method for determining body lumen conditions, the method comprising:

receiving an endo-luminal sample in an interaction chamber, said interaction chamber including at least an indicator for reacting with an endo-luminal sample, said interaction chamber being behind an optical window;

illuminating the interaction chamber; and

imaging the interaction chamber.

73. (previously presented) The method according to claim 72 comprising imaging the interaction chamber with an optical system.

74. (previously presented) The method according to claim 72 comprising imaging optical changes in the interaction chamber.

75. (previously presented) The method according to claim 72 comprising illuminating said interaction chamber wherein at least a portion of the interaction chamber is transparent in a wavelength of illumination.

76. (previously presented) The method according to claim 72, comprising transmitting images to an external receiver.